

What is claimed is;

1. A method of analyzing double stranded DNA present in an analyte, which comprises the steps of:

- (1) contacting the analyte with a double stranded DNA recognizing substance immobilized on a support, and
- (2) measuring double stranded DNA bound to the double stranded DNA recognizing substance.

2. A method of analyzing double stranded DNA present in an analyte, which comprises the steps of:

- (1) contacting the analyte with a double stranded DNA recognizing substance immobilized on a support,
- (2) applying an electric field between the support on which the double stranded DNA recognizing substance is immobilized and the analyte, to direct double stranded DNA present in an analyte toward the double stranded DNA recognizing substance immobilized on the support, and
- (3) measuring double stranded DNA bound to the double stranded DNA recognizing substance.

3. A method of analyzing double stranded DNA present in an analyte, which comprises the steps of:

- (1) contacting the analyte with a double stranded DNA recognizing substance immobilized on a support,
- (2) applying an electric field between the support on which the double stranded DNA recognizing substance is immobilized and the analyte, to direct double stranded DNA present in an analyte toward the double stranded DNA recognizing substance immobilized on the support,
- (3) applying an electric field in a direction which is opposite to the direction of the electric field applied in step (2), and
- (4) measuring double stranded DNA bound to the double stranded DNA recognizing

substance.

4. The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a double stranded DNA recognizing antibody.

5. The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a DNA transcription factor.

6. The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a protein having Zn finger motif or Ring finger motif.

7. The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a peptide nucleic acid.

8. The method of analysis according to claim 1 wherein, in the step of measuring the double stranded DNA bound to the double stranded DNA recognizing substance, an insertion agent which recognizes double stranded DNA is added to a reaction system, and the double stranded DNA present in the analyte is measured by detecting the insertion agent inserted into the double stranded DNA.

9. The method of analysis according to claim 8 wherein the insertion agent is a DNA intercalator.

10. The method of analysis according to claim 9 wherein the DNA intercalator has an electrochemical activity, and the double stranded DNA present in the analyte is measured by detecting the DNA intercalator by electrochemical means.

11. The method of analysis according to claim 9 wherein the DNA intercalator is detected by a fluorescence, luminescence or surface plasmon method.